

The National Conference on Weights and Measures

The National Conference on Weights and Measures, Inc., is a standards development organization for weights and measures regulatory agencies of the States, counties, and cities of the United States, as well as for Federal agency use. The Annual Meeting of the Conference brings together government officials and representatives of business, industry, trade associations, and consumer organizations for the purpose of hearing and discussing subjects that relate to the field of weights and measures technology and administration.

The programs of the National Conference on Weights and Measures and its committees explore the broad area of this economically important segment of governmental regulatory service. The Conference develops and recommends laws and regulations, technical codes for weighing and measuring devices used in commerce, test methods, enforcement procedures, and administrative guidelines for adoption by regulatory agencies in the interest of promoting uniformity of requirements and methods among State and local jurisdictions.

A major objective of the National Conference on Weights and Measures is to foster understanding and cooperation among weights and measures officials and all industrial, business, and consumer interests. The Conference has been cited on numerous occasions for its outstanding success.

The National Institute of Standards and Technology has statutory responsibility for "cooperation with the States in securing uniformity of weights and measures laws and methods of inspection." In partial fulfillment of this responsibility, the Institute is pleased to publish this document for the Conference.

The policy of the National Institute of Standards and Technology is to use metric units of measurement in all of its publications; however, in this publication, recommendations received by the NCWM technical committees have been printed as they were submitted and, therefore, may contain reference only to inch-pound units. Opinions expressed in non-NIST papers are those of the authors and not necessarily those of the National Institute of Standards and Technology. Non-NIST contributors are solely responsible for the content and quality of their material.

Past Chairmen of the Conference

43rd	1958	J. P. McBride, MA	64th	1979	Kendrick J. Simila, OR
44th	1959	C. M. Fuller, CA	65th	1980	Charles H. Vincent, TX
45th	1960	H. E. Crawford, FL	66th	1981	Edward H. Stadolnik, MA
46th	1961	R. E. Meek, IN	67th	1982	Edward C. Heffron, MI
47th	1962	Robert Williams, NY	68th	1983	Charles H. Greene, NM
48th	1963	C. H. Stender, SC	69th	1984	Sam F. Hindsman, AR
49th	1964	D. M. Turnbull, WA	70th	1985	Ezio F. Delfino, CA
50th	1965	V. D. Campbell, OH	71st	1986	George E. Mattimoe, HI
51st	1966	J. F. True, KS	72nd	1987	Frank C. Nagele, MI
52nd	1967	J. E. Bowen, MA	73rd	1988	Darrell A. Guensler, CA
53rd	1968	C. C. Morgan, IN	74th	1989	John J. Bartfai, NY
54th	1969	S. H. Christie, NJ	75th	1990	Fred A. Gerk, NM
55th	1970	R. W. Searles, OH	76th	1991	N. David Smith, NC
56th	1971	M. Jennings, TN	77th	1992	Sidney A. Colbrook, IL
57th	1972	E. H. Black, CA	78th	1993	Allan M. Nelson, CT
58th	1973	George L. Johnson, KY	79th	1994	Thomas F. Geiler, MA
59th	1974	John H. Lewis, WA	80th	1995	James C. Truex, OH
60th	1975	Sydney D. Andrews, FL	81st	1996	Charles A. Gardner, NY
61st	1976	Richard L. Thompson, MD	82nd	1997	Barbara J. Bloch, CA
62nd	1977	Earl Prideaux, CO	83rd	1998	Steven A. Malone, NE
63rd	1978	James F. Lyles, VA	84th	1999	Aves D. Thompson, AK

To: NCWM Members and Friends

From: NCWM Chairman, G. Weston Diggs

Subject: NCWM Annual Meeting

Basic Standards - Building the Foundation for a New Millennium

Each of you is cordially invited to attend and participate in the 85th Annual Meeting of the National Conference on Weights and Measures scheduled for July 16 through July 20, 2000. The meeting site is in Richmond, VA, within two blocks of the James River. Richmond is located in an area of the State that is rich in Colonial and Civil War history.

The Annual Meeting is the last step in the Conference's due process. It gives our members an opportunity to participate in debate and influence issues before the voting sessions on Wednesday and Thursday. The Annual Meeting gives State and local weights and measures officials the opportunity to vote on laws and regulations related to weights and measures that will directly impact the citizens of their respective jurisdictions. The Standing Committees have spent countless hours developing the issues by taking input from our regulatory and industry members. As a result of this process, these issues will be presented to the membership at the Annual Meeting for a vote.

The registration process will be handled in the same manner as last year. You should have already received registration information for the Annual Meeting from NCWM Headquarters. The registration information contained basic meeting and hotel information. If you have not received this information, please call our headquarters at 240-632-9454. Publication 16 contains detailed information on committee reports and recommendations for the Conference's consideration. Committee reports may be amended at the Annual Meeting; this is another reason for you to attend.

Although, we will have a busy week at the Annual Meeting, there will be opportunities to relax with friends and family. There are many things of interest in the Richmond Area. Historic Yorktown, Williamsburg and Jamestown are only 45 miles away. I am sure you will take advantage of the many social activities the Conference will provide throughout the week.

I look forward to seeing you at the Annual Meeting in Richmond. With your participation, this will be one of the best conferences ever.

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National Conference on Weights and Measures Organization Chart 1999-2000

Board of Directors (BOD)

Office/Representation	Name & Affiliation	Term Ends
Chairman:	G. W. Diggs, VA*	
Chairman-Elect:	L. Straub, MD*	
Past Chair/NTEP Committee Chair:	A. Thompson, AK*	
Treasurer:	J. A. Rogers, VA* ^F	
Active Membership/Northeastern:	R. Andersen, NY*	2004
Active Membership/Central	S. Malone, NE*	2000
Active Membership/Southern	M. Hile, AR*	2003
Active Membership/Western	G. West, NM*	2002
At-Large:	M. Pinagel, MI ^F	2003
At-Large:	R. Murdock, NC ^F	2001
Associate Membership:	R. Davis, Fort James Corporation	2001

*National Type Evaluation Program (NTEP) Committee Member

^FFinance Committee Member

See Working Groups, Subcommittees, and Annual Committees of the BOD after the Standing Committees.

Honorary NCWM President:	R. Kammer, NIST Director
NCWM Executive Secretary:	G. Ugiansky, NIST Office of Weights and Measures
BOD Advisors:	J. Koenig, NIST, Office of Weights and Measures
	B. Palys, CAE, Executive Director, NCWM Headquarters
	G. Vinet, Canada
NTEP Committee Technical Advisor:	T. Butcher, NIST Office of Weights and Measures

Laws & Regulations Committee

Chairman:	S. Morrison, San Luis Obispo Co., CA (1)
Members:	P. D'Errico, NJ (3)
	D. Johannes, CA (5)
	D. Onwiler, NE (4)
	R. Williams, TN (2)
NIST Technical Advisor:	T. Coleman
Canadian Tech. Advisors:	S. Dupras
	J. Watters
Associate Member Rep.:	C. Guay, Proctor & Gamble Co.

Petroleum Subcommittee

Chairman & Tech Advisor:	R. Jennings, TN
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NIST Handbook 133 Working Group

Chairman:	B. Bloch, CA
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Specifications & Tolerances Committee

Chairman:	M. Hopper, Kern Co., CA (1)
Members:	C. Cotsoradis, KS (5)
	M. Coyne, Brockton, MA (3)
	G. Shefcheck, OR (2)
	R. W. Wotthlie, MD (4)

NIST Technical Advisor:	J. Williams
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Canadian Tech. Advisor:	T. Kingsbury
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Multiple Dimension Measuring Devices Working Group

Chair:	C. Skonberg, United Parcel Service
Technical Advisor:	R. Suiter, NIST

Remanufactured Device Task Force

Chairman:	J. Truex, OH
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Administration & Public Affairs Committee

Chairman: R. Philmon, IL (2)
 Members: J. Flanders, GA (3)
 D. Frieders, San Francisco Co., CA (4)
 L. Greenleaf, NJ (1)
 S. Hadder, FL (5)

NIST Technical

Advisor: K. Butcher
 Associate
 Member Rep.: B. Fuehne, Ralston Purina Co.
 NCWM Safety
 Liaison: C. Gardner, Suffolk Co., NY

Voluntary Program Assessment Working Group

Chairman: S. Colbrook, IL

Metrology Subcommittee

Chairman: R. Balaze, MI
 Vice Chairman: K. Fraley, OK
 Members:
 L.F. Easton, NC J. Rothleder, CA
 D. Newcombe, ME J. Torres, PR
 Technical Advisor: G. Harris, NIST

Nominating Committee

Chairman: A. Thompson, AK
 Members: B. Bloch, CA
 S. Colbrook, IL
 C. Gardner, Suffolk Co., NY
 T. Geiler, Barnstable, MA
 N. D. Smith, NC
 J. Truex, OH

Legislative Liaison

Chairman: T. Geiler, Barnstable, MA
 Members: W. Corey, American Frozen Foods
 N. D. Smith, NC

Resolutions Committee

Chairman: J. Tillson, MS (1)
 Members: C. Kloos, Colgate-Palmolive (2)
 R. Alviene, NJ (3)

Handbook 44 Working Group

Chairman: R. Murdock, NC

Coordinator: L. DiTizio

Credentials Committee

Chairman: H. Hochstetler, Elkhart Co., IN (1)
 Members: T. Lori, NJ (2)
 Vacant (To be appointed)

Coordinator L. DiTizio

Other Appointed Officers

Parliamentarian: B. Adams, MN
 Chaplain: M. Hile, AR
 Sergeants-At-Arms: (To be appointed)

Presiding Officers: C. Cooney, OR
 L. Hatfield, KY
 D. Slaydon, TX
 C. Bruckner, PA

Associate Membership Committee

Chairman: F. Holland, Southern Enterprises (1)
Vice Chair: A. Nelson, NW Associates (5)
Secretary/
Treasurer: C. Frye, International Dairy Foods Association (4)
Members: J. Baker, Pier 1 Imports (3)
D. Cook, Kraft Foods, Inc. (3)
D. Flocken, Mettler-Toledo (4)
C. Guay, Procter & Gamble Company (2)
C. Kloos, Colgate-Palmolive Company (3)
V. Orr, ConAgra Refrigerated Prepared Foods (5)
D. Quinn, Fairbanks Scales (1)

Regional Weights and Measures Association Contacts for Membership Information

Northeastern Weights and Measures Assn. (NEWMA): William Wilson, Clinton Co., NY, Secretary
Southern Weights and Measures Assn. (SWMA): N. David Smith, NC, Secretary/Treasurer
Central Weights and Measures Assn. (CWMA): Renee Osterkamp, SD, Executive Secretary
Western Weights and Measures Assn. (WWMA): Charles Green, NM - Retired,
Secretary/Treasurer
840 Camino Del Rex
Las Cruces, NM 88001
Telephone: 505-523-0730

National Type Evaluation Program

Technical Committee

Weighing Sector

Chair: N. Mills, Hobart Corporation

Technical

Advisor: R. Suiter, NIST

Public Sector

Members: R. Andersen, NY

A. Buie, MD

T. Butcher, NIST

C. Carter, OK

S. Cook, CA

G. W. Diggs, VA

D. Onwiler, NE

R. Pforr, GIPSA

D. Ripley, NIST

G. Shefcheck, OR

J. Truex, OH

L. Turberville, AL

J. Vanderwielen, GIPSA

J. Watters, Canada

K. Yee, NIST

Private Sector

Members: J. Antkowiak, Hottinger Baldwin
Measurements

W. Brasher, Southern Company
Services, Inc.

L. Burrow, Sensortronics

L. Cerny, Association of American
Railroads

J. Elengo, Contractor

D. Flocken, Mettler-Toledo, Inc.

W. GeMeiner, Union Pacific RR

W. Goodpaster, Cardinal/Detecto

K. Haker, BLH Electronics

D. Hawkins, Fancor, Inc.

J. Hughes, Weigh-Tronix, Inc.

D. Krueger, NCR

G. Lameris, Hobart Corporation

H. Lockery, Lockery Assoc.

T. Luna, Scales Unlimited, Inc.

L. E. Luthy, Brechbuhler Scales, Inc.

V. Pandit, Allegany Technology, Inc.

D. Tonini, Scale Manufacturers
Association

J. Wang, A&D Engineering, Inc.

O. Warnlof, Consultant

R. Watts, Universel Epsco, Inc.

Measuring Sector

Chair: R. Tucker, Tokheim Corporation

Technical

Advisor: R. Suiter, NIST

Public Sector

Members: R. Andersen, NY

T. Butcher, NIST

S. Cook, CA

S. Hadder, FL

T. Kingsbury, Canada

S. Malone, NE

R. Murdock, NC

D. Ripley, NIST

W. West, OH

R. Wotthlie, MD

Private Sector

Members: R. B. Beahm, Krohne, Inc.

F. M. Belue, Belue Associates

R. Cooper, Schlumberger (Neptune)

C. Eskin, Shell Oil Company/API

R. Fonger, Bennett Pump Co.

M. Hankel, MCH Engineering

Associates, Inc.

K. Hoffer, Hoffer Flow Controls, Inc.

F. Holland, Southern Enterprises

R. Huff, Universal Epsco, Inc.

D. Joines, Dresser Wayne

G. Johnson, Gilbarco, Inc.

M. Keilty, Micro Motion, Inc.

D. Krueger, NCR

W. Mattar, The Foxboro Co.

A. Noel, Schlumberger Industries

K. Ridenour, Endress + Hauser

J. Skuce, Smith Meter, Inc.

D. Smith, Gasboy International, Inc.

R. Traettino, Liquid Controls Corp.

O. Warnlof, Consultant

K. White, Brooks Instrument Div.

Belt Conveyor Scales Sector

Chair: P. Chase, Consultant

Technical

Advisor: R. Suiter, NIST

Public Sector

Members: A. Buie, MD
T. Butcher, NIST
S. Cook, CA
R. Miller, CO
D. Ripley, NIST
L. Turberville, AL

Private Sector

Members: K. Alexeff, Stock Equipment Co.
W. Brasher, Southern Co. Services
G. Burger, Consultant
L. Burrow, Sensortronics
M. Casanova, Ramsey Technology
L. Cerny, Association of
American Railroads
P. Chase, Chase Technology, Inc.
D. Cockrell, Consultant
R. DeSollar, Central Illinois
Public Service Company
R. Dietrich, Kaskaskia Valley Scale
S. Hawkins, ABC Scale
T. Johnson, Sensortronics
K. Knapp, Milltronics
F. Joe Loyd, CSX Transportation
J. Oliver, Virginia Power
N. Ortyl, III, Dresser Industries
B. Ripka, Ramsey Technology, Inc.
P. Sanford, Thayer Scale
D. Tonini, Scale Manufacturers
Association
T. Vormittag, Sr, Commercial
Testing & Engineering Co.
O. Warnlof, Consultant

Grain Moisture Meter Sector and Near-Infrared Protein Analyzer Sector

Chair: R. W. Wotthlie, MD

Technical

Advisor: J. W. Barber, J B Associates
G. D. Lee, NIST

Public Sector

Members: Canadian Grain Commission
R. Burns, AR
D. Funk, GIPSA
D. Onwiler, NE
R. Pierce, GIPSA
D. Ripley, NIST
J. Rothleder, CA
C. Tew, NC
R. Wittenberger, MO

Private Sector

Members: J. Bair, Millers National Federation
T. Conwell, CSC Scientific
Company,
Inc.
M. Clements, The Steinlite Corp.
C. Eigenmann, DICKEY-john Corp.
M. Hall, Sartorius Instruments
C. Hurburgh, Jr., Iowa State
University
D. Krejci, Grain Elevator &
Processing Society*
R. Oberg, Zeltex, Inc.
T. O'Connor, National Grain &
Feed Association
O. Rasmussen, Foss North America
Inc.*
T. Runyon, Seedboro Equipment
F. Seeber, Shore Sales Co., Grain
Elevator & Processors Society
C. Watson, Consultant
H. Yamahira, Kett Electric
Laboratory

*(Grain Moisture Meter Sector only)

Conduct of the Annual Meeting

Purpose

The purpose of the Annual Meeting is to provide to:

- (1) all members the opportunity to offer comments to the committees on items printed in the Interim Reports and
- (2) all voting delegates an opportunity to vote on committee recommendations.

Orientation for First-time Attendees

Monday, July 17, 2000

8:00 a.m. to 8:30 a.m.

All attendees, particularly those participating for the first time, are encouraged to attend the orientation meeting on Monday morning. This session acquaints attendees with the organization and procedures of the Conference and is open to all registered attendees.

Guide to the Interim Committee Reports

The Interim Committee Reports are provided so that members will know the recommendations of Committees prior to the Annual Meeting. The Reports include Reference Key numbers for the following Committees:

Committee Reference Key

Board of Directors	100 series
Laws and Regulations	200 series
Specifications and Tolerances	300 series
Administration and Public Affairs	400 series
National Type Evaluation Program Committee	500 series
Nominating	800 series

The Committee Reports contain recommendations and information on items discussed at the Interim Meetings held during the week of January 19-23, 2000 in Bethesda, MD. These reports form the basis for conduct of the committee meetings. Each committee will discuss the items in its report during the committee sessions beginning Monday, July 17, 2000.

Item Categories

The items contained in the Committee Reports are organized into three categories:

1. **Informational Items** report on subjects and/or actions under consideration by the committee but not proposed for voting. An "I" follows the item number.
2. **Voting Items** are items for which the committee is making recommendations requiring voting by the Active Members. The recommended language to be voted on is in **bold face type**. A "V" follows the item number.

Some voting items are considered individually; the remainder may be grouped in a "Consent Calendar." **Consent Calendar Items** are voting items that the committees, just prior to the voting sessions, assemble as a single voting item on the assumption that they are non-controversial. The voting items that have been grouped into the Consent Calendar items will be listed on the Addendum Sheets; they are designated only as voting items in this book.

3. **Withdrawn Items.** Item numbers track those assigned in the Interim Agenda. Items that the committee has withdrawn from the report are marked with a "W."

Each committee reserves the right to shift items among the three categories (voting, informational, and withdrawn), except that items which are marked informational or withdrawn are not shifted to the voting category. Prior to making a motion for a vote, a committee may move selected items from the Consent Calendar to be voted on individually. However, any change from the Interim Report (as contained in this document) or from what appears on the Addendum Sheets will be explained to the attendees prior to a motion and will be acted upon by the membership prior to calling for the vote.

Modifications to Committee Reports will be documented in the form of Addendum Sheets prepared by the committees following the general sessions and will be available to the attendees no later than 9:00 p.m. on Tuesday, July 18. Committee Reports may be further modified as a result of actions taken by the membership at the voting sessions on July 19 and 20, 2000.

Written Comments or Oral Statements

Any person or organization wanting to present a prepared statement at one of the committee sessions should make the request in writing to the Executive Secretary. Reasonable limitations on time allotted for presentations will be imposed. (Note: Only registered attendees may make presentations.)

Written comments, suggestions, and data relative to these reports must be received by the Executive Secretary or appropriate Technical Advisor by June 16, 2000. Address all comments to the National Institute of Standards and Technology, Office of Weights and Measures, 100 Bureau Drive, STOP 2350, Gaithersburg, Maryland 20899-2350.

Final Report

Final Committee Reports will be prepared by the committees and published in the *Report of the 85th Annual Meeting of the National Conference on Weights and Measures, 2000*. Each member of the National Conference on Weights and Measures will receive a copy of this publication; other interested parties can receive a copy by request to the Executive Secretary.

All Meetings Are Open Unless Posted

On Sunday, Committees review their agendas. All sessions of Conference meetings are normally open to members of the Conference. If a committee must discuss any issue that involves proprietary information (e.g., NTEP appeals) or other confidential material, that portion of the session dealing with the special issue may be closed provided that: (1) the Conference Chairman or, in his absence, the Chairman-Elect approves; (2) the Executive Secretary is notified; and (3) an announcement of the closed meeting is posted on or near the door to the meeting session and on the announcement board at the registration desk. If at all possible, the posting will be done at least a day prior to the planned closed session. Please note that a one-day notice will not be possible if a closed meeting is called on Sunday. Since participants may make their travel reservations in order to attend agenda reviews scheduled for Sunday, every effort will be made to limit any required closed meetings to only part of Sunday.